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PTO/SB/21 (08-03)

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TRANSMITTAL FORM

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Total Number of Pages in This Submission

17

Application Number

10/650,357

Filing Date

08/27/03

First Named Inventor

James Dillon

Art Unit

3738

Examiner Name

to be assigned

Attorney Docket Number

5199-5

ENCLOSURES (Check all that apply)

- | | | |
|--|---|---|
| <input type="checkbox"/> Fee Transmittal Form | <input type="checkbox"/> Drawing(s) | <input type="checkbox"/> After Allowance communication to Technology Center (TC) |
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| <input type="checkbox"/> Amendment/Reply | <input type="checkbox"/> Petition | <input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) |
| <input type="checkbox"/> After Final | <input type="checkbox"/> Petition to Convert to a Provisional Application | <input type="checkbox"/> Proprietary Information |
| <input type="checkbox"/> Affidavits/declaration(s) | <input type="checkbox"/> Power of Attorney, Revocation | <input type="checkbox"/> Status Letter |
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| <input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53 | | |

Remarks

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm or Individual name
Todd Holmbo, Reg. No. 42,665

Signature

Date

5/11/04

CERTIFICATE OF TRANSMISSION/MAILING

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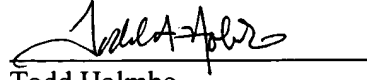
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

The Commissioner is hereby authorized to charge payment of any fees associated with this application or credit any overpayment to Deposit Account No. 02-4270.

Respectfully submitted,

A handwritten signature in black ink, appearing to read "Todd Holmbo", is written over a horizontal line.

Todd Holmbo
Reg. No. 42,665
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BRMFS1 488676v1

**Complete if Known**

(Use as many sheets as necessary)

Sheet	1	of	1
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Application Number	10/650,357
Filing Date	08/27/03
First Named Inventor	James Dillon
Art Unit	3738
Examiner Name	to be assigned
Attorney Docket Number	5199-5

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FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ⁶
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
		WO01/64661	02/23/01	Nishimura, K.		

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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached

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Substitute for form 1449/PTO

Complete if Known**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 1 of 14

Application Number	10/650,357
Filing Date	08/27/03
First Named Inventor	James Dillon
Art Unit	3738
Examiner Name	to be assigned
Attorney Docket Number	5199-5

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		Abrams et al., An improved method for practice vitrectomy.	
		Arch. Ophthalmol., 96(3):521-25, 1978	
		Alder and Cringle, The effect of the retinal circulation on vitreal oxygen tension.	
		Curr. Eye Res., 4(2):121-29, 1985 (N/A)	
		Alder et al., Vitreal oxygen tension gradients in the isolated perfused cat eye.	
		Curr. Eye Res., 5:249, 1986	
		Allen et al., Determination of Henry's Law Constants by equilibrium partitioning in a closed system using a new in situ optical absorbance method.	
		Environ. Toxicology and Chem., 17:1216-221, 1998 (N/A)	
		Bakker, A., Die regeneration der verwundeten linsenkapselfon kaninchenslinsen in der durchstromungskultur.	
		von Graefes Arch. Ophthalmol., 136:333-40, 1937	

Examiner Signature	Date Considered
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		Art Unit	3738		
		Examiner Name	to be assigned		
Sheet	2	of	14	Attorney Docket Number	5199-5

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		Beyers, Glyceraldehyde-3-phosphate dehydrogenase from yeast.	
		Methods Enzymol., 89:326-35, 1982	
		Buerk et al., O2 gradients and countercurrent exchange in the cat vitreous humor near retinal arterioles and venules.	
		Microvasc. Res., 45(2):134-48, 1993	
		Cherfan et al., Nuclear sclerotic cataract after vitrectomy for idiopathic epiretinal membranes causing macular pucker.	
		Am. J. Ophthalmol., 111(4):434-38, 1991	
		Chung et al., Cataract formation after pars plana vitrectomy.	
		Kaohsiung J. Med. Sci., 17:84-89, 2001 (N/A)	

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		First Named Inventor	James Dillon
		Art Unit	3738
		Examiner Name	to be assigned
Sheet 3	of 14	Attorney Docket Number	5199-5

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Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		Chylack and Kinoshita, The interaction of the lens and the vitreous II. The influence of the vitreous on lens trauma water and electrolyte balance	
		and osmotic stress.	
		Exp. Eye Res. 15:61-69, 1973	
		Dierks et al., Protein size resolution in human eye lenses by dynamic light scattering after in vivo measurements.	
		Graefe's Arch. Clin. Exp. Ophthalmol., 236:18-23, 1998	
		Dillon et al., Transmission characteristics of the lens of the primate eye.	
		IOVS Invest. Ophthalmol. Vis. Sci., 41:1454-459, 2000	
		Eaton, J. W., Is the lens canned?	
		Free Radic. Biol. Med., 11(2):207-13, 1991	

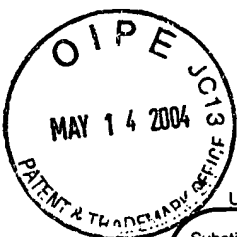
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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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Application Number	10/650,357
Filing Date	08/27/03
First Named Inventor	James Dillon
Art Unit	3738
Examiner Name	to be assigned
Attorney Docket Number	5199-5

Sheet	4	of	14
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NON PATENT LITERATURE DOCUMENTS

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		Elstner et al., Biochemical model reactions for cataract research.	
		Ophthalmic Res., 17(5):302-07, 1985	
		Fischbarg et al., Transport of fluid by lens epithelium.	
		Am. J. Physiol., 276:C548-C557, 1999	
		Fitch et al., Measurement and manipulation of the partial pressure of oxygen in the rat anterior chamber.	
		Curr. Eye Res., 20(2): 121-26, 2000	
		Haimann et al., The effect of intraocular irrigating solutions on lens clarity in normal and diabetic rabbits.	
		Am. J. Ophthalmol., 94(5):594-605, 1982	
		Helbig et al., Oxygen in the anterior chamber before and after cataract operation.	
		Ophthalmologie, 92(3):325-28, 1995 (N/A)	

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Sheet	5	of	14
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		Hockwin and Orhloff, Enzymes in normal, aging and cataractous lenses. In Molecular and Cellular Biology of the Eye.	
		Bloemendal, H., ed., New York: John Wiley & Sons, 1981, pp. 367-414	
		Hsuan et al., Posterior subcapsular and nuclear cataract after vitrectomy.	
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		Arch. Ophthalmol., 119:1009-19, 2001	
		Kinsey et al., Studies on the crystalline lens VI. Mitotic activity in the epithelia of lenses cultured in various media.	
		Am. J. Ophthalmol., 40:216, 1955	
		Kleiman et al., Hydrogen peroxide-induced DNA damage in bovine lens epithelial cells.	
		Mutation Res., 240:35-45, 1990	

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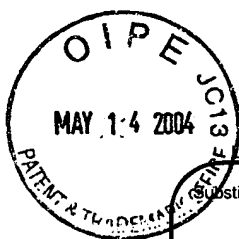
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Sheet 6	of 14	Attorney Docket Number	5199-5

NON PATENT LITERATURE DOCUMENTS			
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		Kleiman et al., Ultraviolet light induced DNA damage and repair in bovine lens epithelial cells.	
		Curr. Eye Res., 9:1185-95, 1990	
		Kleiman et al., In Duane's Clinical Ophthalmology. W. Tasman and E.A. Jaeger, eds. Philadelphia: J.P. Lippincott & Co., 1994, vol. 1 ch. 15, pp.1-39 (N/A)	
		Korte et al., A comparison of two buffering systems for lens organ culture.	
		Ophthalmic Res., 14:265-68, 1982	
		Kwan et al., In vivo measurements of oxygen tension in the cornea, aqueous humor, and anterior lens of the open eye.	
		Inves. Ophthalmol. Vis. Sci., 11: 108-14, 1972	
		Lamers-Lemmers et al., Non-steady-state O2 diffusion in metamyoglobin solutions studied in a diffusion chamber.	
		Biochemical and Biophysical Res. Commun., 276:773-78, 2000	

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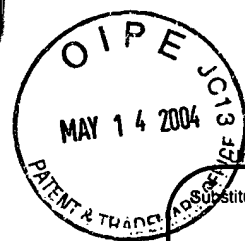
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		Linetsky et al., Spontaneous generation of superoxide anion by human lens proteins and by calf lens proteins ascorbylated in vitro.	
		Exp. Eye Res., 69:239-48, 1999	
		Lou and Kinoshita, Control of lens glycolysis.	
		Biochim. Biophys. Acta, 141:547-59, 1967	
		Mcdermott et al., Ophthalmic irrigants: A current review and update.	
		Ophthalmic Surg., 19(10): 724-33, Oct. 1988	
		McLaren et al., Measuring oxygen tension in the anterior chamber of rabbits.	
		Investigative Ophthalmology and Visual Science, 39(10): 1899-909, 1998	
		Obara, The oxidative stress in the cataract formation.	
		Nippon Ganka Gakkai Zasshi, 99(12):1303-41, 1995 (N/A)	

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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT***(Use as many sheets as necessary)***Complete if Known**

Application Number	10/650,357
Filing Date	08/27/03
First Named Inventor	James Dillon
Art Unit	3738
Examiner Name	to be assigned
Attorney Docket Number	5199-5

Sheet	8	of	14
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NON PATENT LITERATURE DOCUMENTS

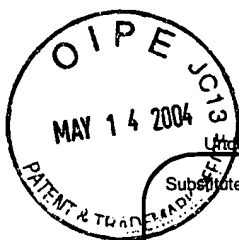
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		Ogura et al., Quantitative analysis of lens changes after vitrectomy by fluorophotometry.	
		Am. J. Ophthalmol., 111:179-83, 1991	
		Ogura et al., Prospective longitudinal studies on lens changes after vitrectomy-quantitative assessment by fluorophotometry and refractometry.	
		Nippon Ganka Gakki Zasshi, 97:627-31, 1993 (N/A)	
		Ortwerth and Olesen, Glutathione inhibits the glycation and crosslinking of lens proteins by ascorbic acid.	
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		Br. J. Ophthalmol., 68:113-17, 1984	

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Complete if Known**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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Sheet 9

of 12

Application Number

10/650,357

Filing Date

08/27/03

First Named Inventor

James Dillon

Art Unit

3738

Examiner Name

to be assigned

Attorney Docket Number

5199-5

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		Palmquist et al., Nuclear vacuoles in nuclear cataract.	
		Acta. Ophthalmol. (Copenh.), 64(1): 63-6, 1984	
		Reddan et al., Regional differences in the distribution of catalyses in the epithelium of the ocular lens.	
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		Anderson, R. E. ed., San Francisco: American Academy of Ophthalmology, 1983, pp. 79-95 (N/A)	

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		Application Number	10/650,357
		Filing Date	08/27/03
		First Named Inventor	James Dillon
		Art Unit	3738
		Examiner Name	to be assigned
Sheet 10	of 14	Attorney Docket Number	5199-5

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		Rischbieter and Schumpe, Gas solubilities in aqueous solutions of organic substances.	
		J. Chem. Eng. Data, 41: 809-12, 1996	
		Rose et al., Properties of electrochemically active components in mammalian vitreous humor.	
		Exp. Eye Res., 64:807-12, 1997	
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		Sakaue et al., Measurement of vitreous oxygen tension in human eyes.	
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		Am. J. Ophthalmol., 132(3): 356-62, 2001	

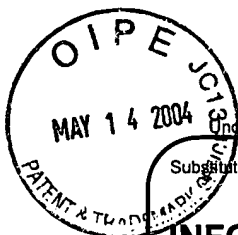
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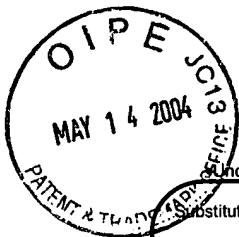
Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Complete if Known	
		Application Number	10/650,357
		Filing Date	08/27/03
		First Named Inventor	James Dillon
		Art Unit	3738
		Examiner Name	to be assigned
Sheet 11	of 14	Attorney Docket Number	5199-5

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		Schocket et al., Induction of cataracts in mice by exposure to oxygen.	
		Isr. J. Med. Sci., 8(8):1596-601, 1972	
		Schumpe, A., The estimation of gas solubilities in salt solutions.	
		Chemical Engineering Sci., 48: 153-58, 1993 (N/A)	
		Shui and Beebe, Oxygen levels in human eyes before and after vitrectomy.	
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		Spector et al., Repair of H2O2 induced DNA damage in bovine lens epithelia cell cultures. Exp. Eye Res., 60:483-92, 1995a	

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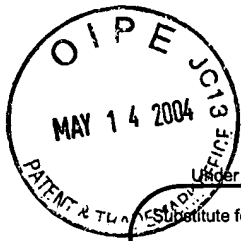
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		Invest. Ophthalmol. Vis. Sci., 41:832-43, 2000	
		Spector et al., A brief photochemically induced oxidative insult causes irreversible lens damage and cataract II. Mechanism of Action.	
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		Spector and Wang, The aqueous humor is capable of generating and degrading H2O2.	
		Inves. Ophthalmol. Vis. Sci., 39:1188-97, 1998	

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		Invest. Ophthalmol. Vis. Sci., 31(2):284-89, 1990	
		Subczynski et al., Effect of alkyl chain unsaturation and cholesterol intercalation on oxygen transport in membranes: A pulse ESR spin labeling study.	
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		Tessier et al., Decrease in vitamin C concentration in human lenses during cataract progression.	
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		Truscott, R.J., Age-related nuclear cataract: a lens transport problem.	
		Ophthalmic. Res., 32(5): 185-94, 2000	

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Application Number	10/650,357
Filing Date	08/27/03
First Named Inventor	James Dillon
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Sheet	14	of	14
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		Curr. Eye Res., 3(1):35-57, 1984	
		Yorio et al., Aerobic and anaerobic metabolism of the crystalline lens of a poikilotherm; the toad Bufo marinus.	
		Comparative Biochemistry and Physiology, 62: 123-26, 1979	
		Young, R.W., Age-related deterioration of the lens. In age-related cataract, Oxford: Oxford University Press, 1991, pp. 33-56	

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